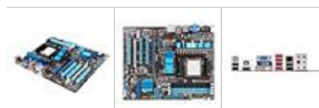




M4A785TD-V EVO

- 140w CPU support
- 128MB SidePort Memory
- GPU NOS
- ASUS EPU
- Turbo Key



CPU, Chipset and Graphics Features

AMD® Phenom™ II/Athlon™ II/ Sempron™ 100 Series Processors (socket AM3)

This motherboard supports AMD® Socket AM3 multi-core processors with unique L3 cache and delivers better overclocking capabilities with less power consumption. It features dual-channel DDR3 1333 memory support and accelerates data transfer rate up to 5200MT/s via HyperTransport™ 3.0 based system bus. This motherboard also supports AMD® CPUs in the new 45nm manufacturing process.



AMD® 785G / SB710

AMD® 785G / SB710 Chipset is designed to support up to 5200MT/s HyperTransport™ 3.0 (HT3.0) interface speed and PCI Express™ 2.0 x 16 graphics. It is optimized with AMD's latest AM3 and multi-core CPUs to provide excellent system performance and overclocking capabilities.



Dual-Channel DDR3 1800(O.C.)

The motherboard supports DDR3 memory that features data transfer rates of 1800 (O.C.)/1600(O.C.)/1333/1066 MHz to meet the higher bandwidth requirements of the latest operation system, 3D graphics, multimedia, and Internet applications.



PCIe 2.0 support

This motherboard supports the latest PCIe 2.0 devices for double speed and bandwidth which enhances system performance.



SidePort Memory

This motherboard features SidePort Memory, an individual onboard DDR3 memory serving as memory buffer for integrated graphics. With low CPU usage, the SidePort Memory provides integrated graphics acceleration and effectively boosts graphics performance.



HDMI Support

Enjoy Full HD 1080p Multimedia Home-Theater Entertainment

High-Definition Multimedia Interface (HDMI) is a set of digital video standards that delivers multi-channel audio and uncompressed digital video for full HD 1080p visuals through a single cable. Supporting HDCP copy protection such as HD DVD and Blu-ray Discs, HDMI provides you with the highest-quality home theater experience.



Hybrid CrossFireX™ Support

Boosted Performance with onboard GPU and discrete graphics card



HD DVD / Blu-ray

ATI Hybrid CrossFire™ technology is a unique hybrid multi-GPU technology. It takes your gaming experience to the next level boosting PC performance by enabling the chipset's integrated graphics processor and a discrete GPU to operate simultaneously with combined output for blisteringly-fast frame rates unleashing the graphics performance * Visit www.amd.com for the Hybrid CrossFireX selected GPUs.



8+2 Phase Power Design

To fully unleash the next-generation AM3 CPU's potential, the ASUS M4 Series motherboards have adopted a brand new 8-phase VRM power design. It delivers high power efficiency and supreme overclocking ability. Furthermore, high quality power components can effectively lower system temperature to ensure longer component lifespan. This series also features an extra 2 (or 1) phase power dedicated to integrated memory/HT controller.



ASUS Green Design

EPU

The ASUS EPU (Energy Processing Unit) provides total system power management by detecting current PC loadings and intelligently moderating power in real-time. It automatically provides the most appropriate power usage for the CPU, VGA card, hard drives, and CPU/chassis fans- helping save power and money!



ASUS Overclocking Tools

Turbo Key

ASUS Turbo Key allows the user to turn the PC power button into an overclocking button. After the easy setup, Turbo Key can boost performances without interrupting ongoing work or games - with just one touch!!



GPU NOS

GPU NOS technology intelligently detects graphic loading and automatically boosts performance for the most demanding tasks. Unlike other dynamic overclocking techniques, GPU NOS reacts much faster to satisfy your need for graphic power.



*GPU NOS does not take effect under Hybrid CrossFire mode.

TurboV

Feel the adrenaline rush of real-time O.C. - now a reality with the ASUS TurboV. This easy O.C. tool allows you to overclock without exiting or rebooting the OS; and its user-friendly interface makes overclock with just a few clicks away. Moreover, the ASUS OC profiles in TurboV provides the best O.C. settings in different scenarios.



ASUS EZ DIY

ASUS Q-Connector

ASUS Q-Connector allows you to easily connect or disconnect the chassis front panel cables to the motherboard. This unique module eliminates the trouble of connecting the system panel cables one at a time and avoiding wrong cable connections



CrashFree BIOS 3

Simply restore corrupted BIOS data from USB flash disk
The ASUS CrashFree BIOS 3 allows users to restore corrupted BIOS data from a USB flash disk containing the BIOS file. This utility saves users the cost and hassle of buying a replacement BIOS chip.



EZ Flash2

Simply update BIOS from a USB flash disk before entering the OS

EZ Flash is a user-friendly BIOS update utility. Simply press the pre-defined hotkey to launch this tool and update BIOS from a floppy disk before entering the OS.



Express Gate

Express Gate

Taking only 5 seconds to bootup, Express Gate is the one-stop gateway to instant fun! It's a unique motherboard built-in OS. You can utilize the most popular Instant Messengers (IM) like MSN, Skype, Google talk, QQ, and Yahoo! Messenger to keep in touch with friends, or quickly check on the weather and e-mails just before leaving your house. What's more, the user-friendly picture manager lets you view your pictures without entering Windows at anytime!



ASUS Quiet Thermal Solutions

ASUS Q-Fan

ASUS Q-Fan technology intelligently adjusts CPU fan speeds according to system loading to ensure quiet, cool and efficient operation.



* The actual boot time is subject to hardware configurations and product models.

Other ASUS Features

Uses 100% All High-quality Conductive Polymer Capacitors!(VRM 5000hrs lifespan @105°C, 500,000hrs @65°C)

This motherboard uses all high-quality conductive polymer capacitors onboard for durability, improved lifespan, and enhanced thermal capacity.



MyLogo2

Personalize your system with customizable boot logo

You can convert your favorite photo into a 256-color boot logo for a more colorful and vivid image on your screen.



Industry Standard

SATA on the Go

The motherboard supports hard drives based on the Serial ATA (SATA) 3Gb/s storage specification, delivering enhanced scalability and doubling the bus bandwidth for high-speed data retrieval and saves. The external SATA port located at the back I/O provides smart setup and hot-plug functions. Easily backup photos, videos and other entertainment contents on external devices.



High Definition Audio

Enjoy high-end sound system on your PC!

The onboard 8-channel HD audio (High Definition Audio, previously codenamed Azalia) CODEC enables high-quality 192KHz/24-bit audio output, jack-sensing feature, retasking functions and multi-streaming technology that simultaneously sends different audio streams to different destinations. You can now talk to your partners on the headphone while playing a multi-channel network games. All of these are done on one computer.



S/PDIF-out on Back I/O Port

This motherboard provides convenient connectivity to external home theater audio systems via coaxial and optical S/PDIF-out (SONY-PHILIPS Digital Interface) jacks. It allows to transfer digital audio without converting to analog format and keeps the best signal quality.



IEEE 1394a interface

IEEE 1394a interface provides high speed digital interface for audio/video appliances such as digital television, digital video camcorders, storage peripherals & other PC portable devices.



RoHS

GreenASUS

The motherboard and its packaging comply with the European Union's Restriction on the use of Hazardous Substances (RoHS). This is in line with the ASUS vision of creating environment-friendly and recyclable products and packaging to safeguard consumers' health while minimizing the impact on the environment.



Back Panel I/O Ports

Specifications

CPU	AMD Socket AM3 ;Phenom™II/Athlon™II/Sempron™ 100 Series Processors AMD Cool 'n' Quiet™ Technology Supports 45nm CPU
Chipset	AMD 785G/SB710
System Bus	Up to 5200 MT/s HyperTransport™ 3.0
Memory	4 x DIMM, Max. 16 GB, DDR3 1800(O.C.)/1600(O.C.)/1333/1066/800 ECC,Non-ECC,Un-buffered Memory Dual Channel memory architecture *Due to OS limitation, when installing total memory of 4GB capacity or more, Windows® 32-bit operation system may only recognize less than 3GB. Install a 64-bit Windows® OS when you want to install 4GB or more memory on

	the motherboard.
Expansion Slots	2 x PCIe 2.0 x16 (blue @ x16 mode, gray @ x4 mode) 1 x PCIe x1 3 x PCI
VGA	Integrated ATI Radeon™ HD 4200 GPU SidePort Memory - onboard 128MB DDR3 1333 memory - Supports HDMI™ Technology with max. resolution up to 1920 x 1200 (1080P) - Supports Dual-link DVI with max. resolution up to 2560x1600 @60Hz - Supports D-Sub with max. resolution up to 2048x1536 @85Hz - Hybrid CrossFireX™ Support - Dual independent displays support with HDMI / DVI and D-Sub - Supports Microsoft® DirectX 10.1, OpenGL 2.0, Shader Model 4.1 - Hardware Decode Acceleration for H.264, VC-1, and MPEG-2 - Maximum shared memory of 512MB
Storage	SB710 Chipset 1 x UltraDMA 133/100/66 for up to 2 PATA devices 5 x SATA 3 Gb/s ports Support RAID 0, 1, 10, JBOD 1 x eSATA 3Gb/s port
LAN	RTL8112L Gigabit LAN controller featuring AI NET 2
Audio	VT1708S 8-Channel High Definition Audio CODEC - Supports Jack-Detection, Multi-Streaming, and Front Panel Jack-Retasking - Optical S/PDIF Out ports at back I/O
IEEE 1394	VT6308P controller supports 2 x 1394a ports (1 at mid-board; 1 at back panel)
USB	12 USB 2.0 ports (6 ports at mid-board, 6 ports at back panel)
ASUS Unique Features	ASUS Power Solutions: - 8+2 Phase Power Design ASUS Green Design: - EPU Express Gate ASUS Quiet Thermal Solution: - ASUS Fanless Design: Stylish heat sink solution - ASUS Q-Fan ASUS EZ DIY: - ASUS CrashFree BIOS 3 - ASUS MyLogo 2 - ASUS EZ Flash 2
Overclocking Features	Intelligent overclocking tools - Turbo V - GPU NOS (*GPU NOS does not take effect under Hybrid CrossFireX mode.) - Turbo Key SFS (Stepless Frequency Selection) - FSB tuning from 200MHz up to 550MHz at 1MHz increment - PCI Express frequency tuning from 100MHz up to 150MHz at 1MHz increment Overclocking Protection - ASUS C.P.R. (CPU Parameter Recall)
Special Features	100% All High-quality Conductive Polymer Capacitors AMD OverDrive Support* *Advanced cooling system is required when advanced overclock functions of AMD OverDrive are enabled.
Back Panel I/O Ports	1 x PS/2 Keyboard/Mouse Combo port 1 x DVI 1 x D-Sub 1 x HDMI 1 x External SATA 1 x S/PDIF Out (Optical) 1 x IEEE 1394a 1 x LAN (RJ45) port 6 x USB 2.0/1.1 8 -Channel Audio I/O
Internal I/O Connectors	3 x USB connectors (6 ports) 1 x COM connector

	1 x IDE connector 5 x SATA connectors 1 x CPU Fan connector 1 x Chassis Fan connectors 1 x Power Fan connector Front panel audio connector 1 x IEEE 1394a connector 1 x S/PDIF Out Header 1x LPT connector 24-pin ATX Power connector 4-pin ATX 12V Power connector System Panel
BIOS	8 Mb Flash ROM AMI BIOS, PnP, DMI2.0, WfM2.0, SM BIOS 2.3, ACPI 2.0a, ASUS EZ Flash 2, ASUS CrashFree BIOS 3
Manageability	WOL by PME,WOR by PME,WOR by Ring,PXE
Accessories	User's manual 1 x I/O Shield 1 x UltraDMA 133/100/66 cable 4 x SATA cable 1 x Q-Connector
Support Disc	Drivers ASUS PC Probe II Express Gate Anti-virus software (OEM version) ASUS Update AMD OverDrive Utility (AOD)
Form Factor	ATX Form Factor 12 inch x 9.6 inch (30.5 cm x 24.4 cm)